FLAGSTAFF WILDLAND URBAN INTERFACE CODE



Process:

- * 2006 International WUI Code
- Modified w/local amendments
- Development began in Fall 06
- Extensive outreach and collaboration
- Adopted by Council in Feb 08
- **❖** Effective Mar 08

Relationship to International Fire Code (IFC):

- WUI Code adoption occurred intandem with adoption of 2006 IFC (replaced existing Uniform Fire Code)
- Components of IFC which complement WUI Code:
 - Prohibits wood shingles (historic & decorative exceptions)
 - Cancels firework permits when Fire Danger Rating reaches Very High or greater

Why a WUI Code?:

- Wildfire #1 fire threat:
 - Ranked 1st in AZ (2003)
 - Risk & Consequences = High
- Consistent w/other national model codes: ex: Building, Fire, etc
- Public Safety, Quality of Life, Economic Development
- Remain current w/technology, knowledge, and standards

Why a WUI Code?:

Evolution of FireWise efforts:

Structures and Ecosystem

3-E's

Education

Engineering

Enforcement

WUI CODE Specifics:

- > Requirements are not <u>new</u> to the Flagstaff: 1996-2007
 - 10,000 acres in city were treated, including
 - 38 new subdivisions
- Adoption provides specificity to our successful and on-going effort
- Public comments were received and largely integrated into final Code

Where does WUI Code Apply?

- ➤ Required Flagstaff to designate the the "Interface": Code applies within this area
- Includes most of community
- Community is surrounded by, and built into, the largest continuous ponderosa pine forest in the world

City of Flagstaff Wildland/Urban Interface This map of Flagstaff shows the Wildland/Urban Interface Zone Non-Interface Zones City Limits Miles Map and Data is a Product of the City of Flagstaff GIS Department 10/10/07

Specifics:

- > Defensible Space is the entire property
- > Property Maintenance personal responsibility
 - Hazard Tree removal
 - Proximity to chimneys & roofs
 - Flammable weed/debris removal
- > Flame spread rating, <u>not</u> traditional fire resistive rating
- Exterior Ignition Resistant (IR) construction materials to match hazard severity (Fuel & Slope) & improvements (Water)

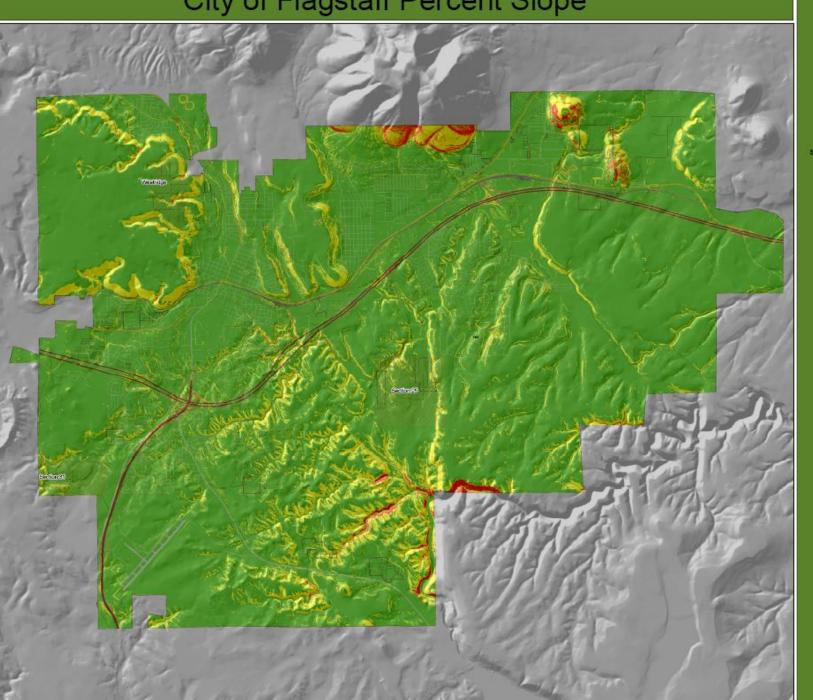
FIRE HAZARD SEVERITY

FUEL MODELS	SLOPE		
	≤ 10%	11–29%	≥ 30%
Light	Moderate	Moderate	High
Medium	Moderate	High	Extreme
Heavy	High	Extreme	Extreme

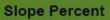
IGNITION RESISTENT (IR) CONSTRUCTION

HAZARD	WATER	SUPPLY	
	Conforming	Non-Conforming	
Moderate	IR 3	IR 2	
High	IR 2	IR 1	
Extreme	IR 1	IR 1	

City of Flagstaff Percent Slope



This map of Flagstaff shows the slope percentages











Map and Data is a Product of the City of Flagstaff GIS Department

IR CONSTRUCTION MATRIX

IR 1	IR 2	IR 3
Class A Flame	Class B Flame	Class C Flame
Spread:	Spread:	Spread:
• Siding	• Siding	Siding & Eaves
(non-combustible)	(w/options)	(any material)
■ Eaves	■ Eaves	
Attic Openings	Attic Openings	Attic Openings
w/wire	w/wire	any material
Windows	Windows	Windows
double-pane or tempered glass	double-pane or tempered glass	any material

IR2 Options: Non-combustible Wainscotting Fire Resistive vegetation

MATERIAL COST ANALYSIS

<u>Material</u>	\$/Sq Ft	
Fir Siding	\$1.16	
Innerseal	\$.96	
Cottage Lap	\$.97	
Hardo Siding (Hardie-panel)	\$1.01	
Cedar Mill Prim (Hardi-plank)	\$.94	
Log Cabin Siding	\$1.93	
Western Red Cedar Siding	\$2.53	

FireWise materials are cost-neutral

Application:

- New Structures & Subdivisions
 - Plans Review Fire Inspectors (FI) & Fire Management (FM) Staff
 - Determination of requirements:
 - Forest Treatments FM (Foresters, Arborists, Wildland Fire Specialists)
 - IR Construction (+IFC standards) FI
 - Site Inspections Building, FI & FM Staff
 - Existing Structures & Neighborhoods
 - Complaint-based inspections
 - Strategic, periodic, Neighborhood reviews

Application (cont):

- Each community is different
- Enforcement levels vary
- Other:
 - Suppression
 - "Shelter in Place" option
 - FireWise Neighborhoods

Contact:

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